

# YAMAHA

## RX-V492

## RX-V392

*Natural Sound AV Receiver*

*Récepteur audiovisuel “Son Naturel”*

*Receptor AV de Sonido Natural*

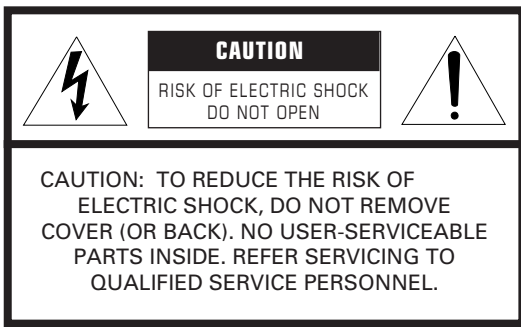
*Thank you for selecting this YAMAHA AV receiver.*

*Nous vous remercions d'avoir porté votre choix sur ce récepteur audiovisuel YAMAHA.*

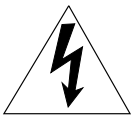
*Muchas gracias por haber adquirido este receptor AV YAMAHA.*

OWNER'S MANUAL  
MODE D'EMPLOI  
MANUAL DE INSTRUCCIONES

# SAFETY INSTRUCTIONS



• Explanation of Graphical Symbols




The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

- 1 Read Instructions – All the safety and operating instructions should be read before the unit is operated.
  - 2 Retain Instructions – The safety and operating instructions should be retained for future reference.
  - 3 Heed Warnings – All warnings on the unit and in the operating instructions should be adhered to.
  - 4 Follow Instructions – All operating and other instructions should be followed.
  - 5 Water and Moisture – The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
  - 6 Carts and Stands – The unit should be used only with a cart or stand that is recommended by the manufacturer.
  - 6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.
- 
- 7 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
  - 8 Ventilation – The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
  - 9 Heat – The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
  - 10 Power Sources – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
  - 11 Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
  - 12 Cleaning – The unit should be cleaned only as recommended by the manufacturer.
  - 13 Nonuse Periods – The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
  - 14 Object and Liquid Entry – Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
  - 15 Damage Requiring Service – The unit should be serviced by qualified service personnel when:
    - A. The power-supply cord or the plug has been damaged; or
    - B. Objects have fallen, or liquid has been spilled into the unit; or
    - C. The unit has been exposed to rain; or
    - D. The unit does not appear to operate normally or exhibits a marked change in performance; or
    - E. The unit has been dropped, or the cabinet damaged.
  - 16 Servicing – The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
  - 17 Power Lines – An outdoor antenna should be located away from power lines.
  - 18 Grounding or Polarization – Precautions should be taken so that the grounding or polarization is not defeated.

**19 For US customers only:**

**Outdoor Antenna Grounding** – If an outside antenna is connected to this unit, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

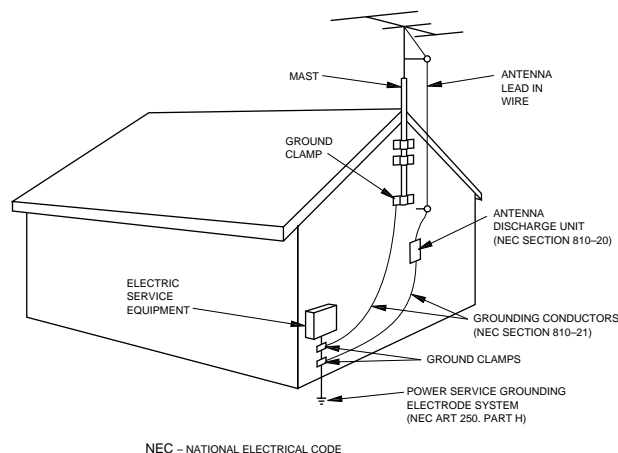
**Note to CATV system installer:**

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**SPECIAL NOTES FOR FCC COMPOSITE DEVICE (for US customers only)**

This device is a composite system. The digital device component may not cause harmful interference.

EXAMPLE OF ANTENNA GROUNDING

**FCC INFORMATION (for US customers only)****1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

**2. IMPORTANT :** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.**3. NOTE :** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

**We Want You Listening For A Lifetime (for US customers only)**

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

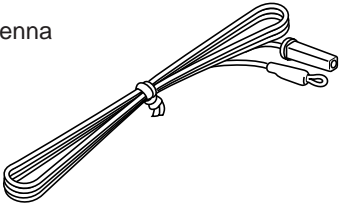
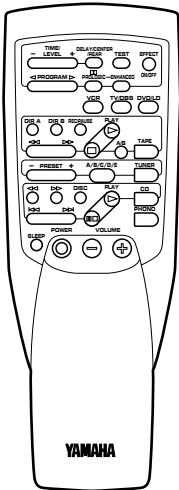
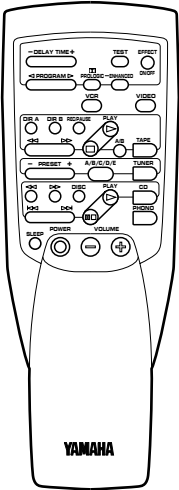
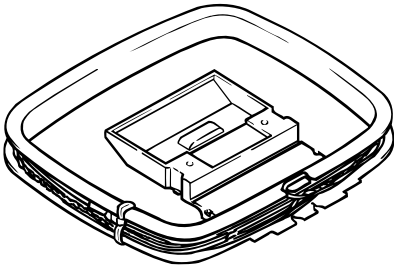
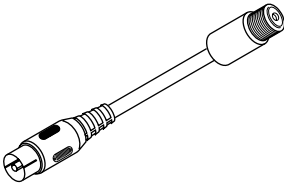
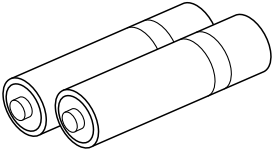


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SUPPLIED ACCESSORIES

After unpacking, check that the following parts are included.

<div>Indoor FM Antenna</div> <div></div>	<div>Remote Control Transmitter</div> <div><div><div>RX-V492</div><div></div></div><div><div>RX-V392</div><div></div></div></div>
<div>AM Loop Antenna</div> <div></div>	
<div>Antenna adapter (U.S.A. and Canada models only)</div> <div></div>	
<div>Batteries (size AA, R6, UM-3)</div> <div></div>	

## FEATURES

### ● 5 Speaker Configuration

#### **RX-V492**

##### <U.S.A. and Canada models>

**Main:** 70W + 70W (8Ω) RMS Output  
Power, 0.04% THD, 20–20,000 Hz

**Center:** 70W (8Ω) RMS Output  
Power, 0.09% THD, 1 kHz

**Rear:** 20W + 20W (8Ω) RMS Output  
Power, 0.7% THD, 1 kHz

##### <Australia and General models>

**Main:** 65W + 65W (8Ω) RMS Output  
Power, 0.04% THD, 20–20,000 Hz

**Center:** 65W (8Ω) RMS Output  
Power, 0.09% THD, 1 kHz

**Rear:** 20W + 20W (8Ω) RMS Output  
Power, 0.7% THD, 1 kHz

#### **RX-V392**

##### <U.S.A. and Canada models>

**Main:** 50W + 50W (8Ω) RMS Output  
Power, 0.04% THD, 20–20,000 Hz

**Center:** 50W (8Ω) RMS Output  
Power, 0.09% THD, 1 kHz

**Rear:** 20W + 20W (8Ω) RMS Output  
Power, 0.7% THD, 1 kHz

##### <Australia and General models>

**Main:** 50W + 50W (8Ω) RMS Output  
Power, 0.04% THD, 20–20,000 Hz

**Center:** 50W (8Ω) RMS Output  
Power, 0.09% THD, 1 kHz

**Rear:** 20W + 20W (8Ω) RMS Output  
Power, 0.7% THD, 1 kHz

- Digital Sound Field Processor
- Dolby Pro Logic Surround Decoder
- Theater-like Sound Experience by the Combination of Dolby Pro Logic and YAMAHA DSP Technology (CINEMA DSP)
- Automatic Input Balance Control for Dolby Pro Logic Surround
- Test Tone Generator for Easier Speaker Balance Adjustment
- 3 Center Channel Modes (NORMAL/WIDE/PHANTOM)
- 40-Station Random Access Preset Tuning
- Automatic Preset Tuning
- Preset Station Shifting Capability (Preset Editing)
- IF Count Direct PLL Synthesizer Tuning System
- Video Signal Input/Output Capability
- SLEEP Timer
- Remote Control Capability

## CAUTION : READ THIS BEFORE OPERATING YOUR UNIT.

1. To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install this unit in a cool, dry, clean place – away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the unit to rain or water.
3. Never open the cabinet. If something drops into the set, contact your dealer.
4. Do not use force on switches, controls or connection wires. When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
5. The openings on the cabinet assure proper ventilation of the unit. If these openings are obstructed, the temperature inside the cabinet will rise rapidly. Therefore, avoid placing objects against these openings, and install the unit in well-ventilated condition. Make sure to allow a space of at least 10 cm behind, 20 cm on the both sides and 30 cm above the top panel of the unit. Otherwise it may not only damage the unit, but also cause fire.
6. Always set the VOLUME control to “– ∞” before starting the audio source play. Increase the volume gradually to an appropriate level after playback has been started.
7. Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
8. Be sure to read the “TROUBLESHOOTING” section regarding common operating errors before concluding that the unit is faulty.
9. When not planning to use this unit for long periods of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
10. To prevent lightning damage, disconnect the AC power plug and disconnect the antenna cable when there is an electrical storm.
11. Grounding or polarization – Precautions should be taken so that the grounding or polarization of an appliance is not defeated.
12. AC outlet  
Do not connect audio equipment to the AC outlet on the rear panel if that equipment requires more power than the outlet is rated to provide.
13. **Voltage Selector (General Model only)**  
**The voltage selector on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC main supply.**  
**Voltages are 110/120/220/240 V AC, 50/60 Hz.**

### IMPORTANT

Please record the serial number of this unit in the space below.

Serial No.:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

### FOR CANADIAN CUSTOMERS

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

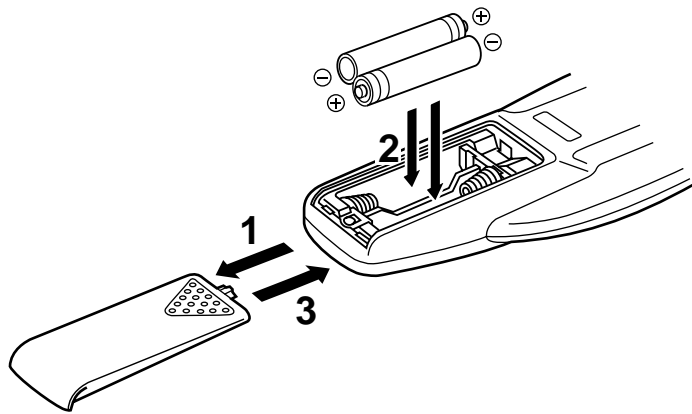
The apparatus is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the apparatus itself is turned off.

### FREQUENCY STEP switch (General Model only)

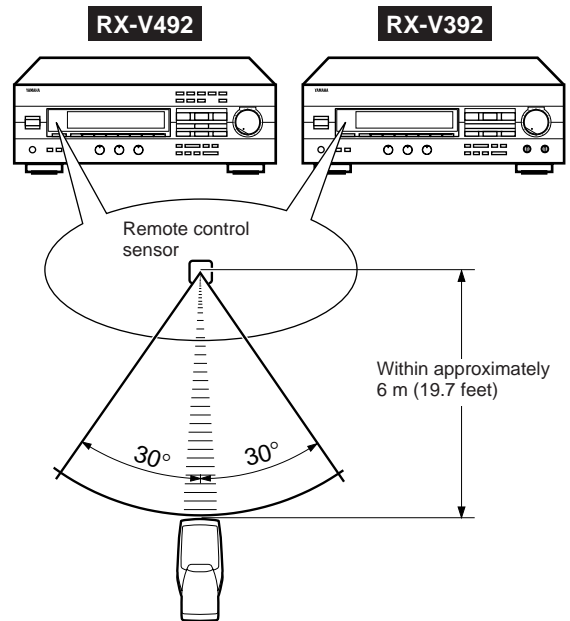
Because the interstation frequency spacing differs in different areas, set the FREQUENCY STEP switch (located at the rear) according to the frequency spacing in your area. Before setting this switch, disconnect the AC power plug of this unit from the AC outlet.

# NOTES ABOUT THE REMOTE CONTROL TRANSMITTER

## Battery installation



## Remote control transmitter operation range



## Battery replacement

If you find that the remote control transmitter must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

### Notes

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

### Notes

- There should be no large obstacles between the remote control transmitter and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp etc.), it might cause the remote control transmitter not to work correctly. In this case, reposition the main unit to avoid direct lighting.



# PROFILE OF THIS UNIT

You are the proud owner of a Yamaha stereo receiver –an extremely sophisticated audio component. The Digital Sound Field Processor (DSP) built into this unit takes advantage of Yamaha's undisputed leadership in the field of digital audio processing to bring you a whole new world of listening experiences. Follow the instructions in this manual carefully when setting up your system, and this unit will sonically transform your room into a wide range of listening environments –movie theater, concert hall, and so on. In addition, you get incredible realism from sources encoded with Dolby Surround using the built-in Dolby Pro Logic Surround Decoder.

Please read this operation manual carefully and store it in a safe place for later reference.

## Digital Sound Field Processing

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What is it that makes live music so good? Today's advanced sound reproduction technology lets you get extremely close to the sound of a live performance, but chances are you'll still notice something missing: the acoustic environment of the live concert hall. Extensive research into the exact nature of the sonic reflections that create the ambience of a large hall has made it possible for Yamaha engineers to bring you this same sound in your own listening room, so you'll feel all the sound of a live concert.

Furthermore, our technicians, armed with sophisticated measuring equipment, have even made it possible to capture the acoustics of a variety of venues such as an actual concert hall, theater, etc. to allow you to accurately recreate one of several actual live performance environments, all in your own home.

## Dolby Pro Logic Surround

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This unit employs a Dolby Pro Logic Surround decoder similar to professional Dolby Stereo decoders used in many movie theaters. By using the Dolby Pro Logic Surround decoder, you can experience the dramatic realism and impact of Dolby Surround movie theater sound in your own home. Dolby Pro Logic employs a four channel five speaker system. The Pro Logic Surround system divides the input signal into four levels: the left and right main channels, the center channel (used for dialog), and the rear surround sound channels (used for sound effects, background noise, and other ambient noises). The center channel allows listeners seated in even less-than-ideal positions to hear the dialog originating from the action on the screen while experiencing good stereo imaging. Dolby Surround is encoded on the sound track of pre-recorded video tapes, laser discs, and some TV/cable broadcasts. When you play a source encoded with Dolby Surround on this unit, the Dolby Pro Logic Surround decoder decodes the signal and distributes the surround-sound effects.

This Dolby Pro Logic Surround Decoder employs a digital signal processing system. This system improves the stability of sound at each channel and minimizes crosstalk between channels, so that positioning of sounds around the room is more accurate compared with conventional analog signal processing systems. In addition, this unit features a built-in automatic input balance control. This always assures you the best performance without manual adjustment.

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

## Dolby Pro Logic Surround + DSP

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Dolby Surround sound system shows its full ability in a large movie theater, because movie sounds are originally designed to be reproduced in a large movie theater using many speakers. It is difficult to create a sound environment similar to that of a movie theater in your listening room, because the room size, materials of inside walls, the number of speakers, etc. of your listening room is much different from those of a movie theater.

Yamaha DSP technology made it possible to present you with nearly the same sound experience as that of a large movie theater in your listening room by compensating for lack of presence and dynamics in your listening room with its original digital sound fields combined with Dolby Surround sound field.

The combination of Dolby Pro Logic Surround and DSP is used on the sound field program "  PRO LOGIC ENHANCED".

### **CINEMA DSP**

The YAMAHA "CINEMA DSP" logo indicates these programs are created by the combination of Dolby Pro Logic and YAMAHA DSP technology.



# SPEAKER SETUP

## SPEAKERS TO BE USED

This unit is designed to provide the best sound-field quality with a 5 speaker configuration. The most effective speakers to use with this unit are main speakers, rear speakers and a center speaker. You may omit the center speaker. (Refer to the “**4-Speaker Configuration**” shown below.)

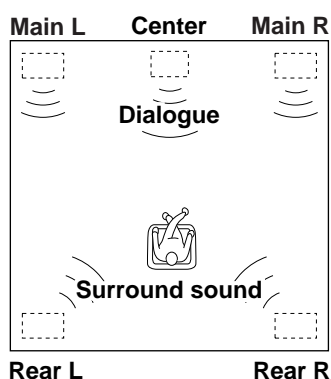
The main speakers are used for the main source sound plus the effect sounds. They will probably be the speakers from your present stereo system. The rear speakers are used for the effect and surround sounds, and the center speaker is for the center sounds (dialog etc.) within programs encoded with Dolby Surround. The center speaker needs to be equal in power to the main speakers, although the rear speakers should not be equal. However, all the speakers should have high enough power handling to accept the maximum output of this unit.

## SPEAKER CONFIGURATION

### 5-Speaker Configuration

This configuration is the most effective and recommended one. In this configuration, the center speaker is necessary as well as the rear speakers. If the program **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED** is selected, conversations will be output from the center speaker and the ambience will be excellent.

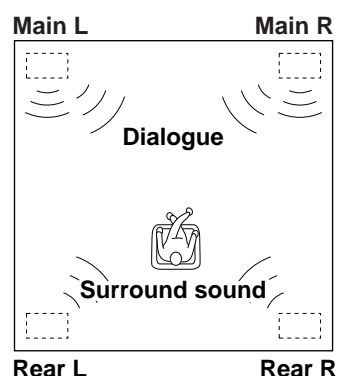
- Set the center channel mode to the “**NORMAL**” or “**WIDE**” position. (For details, refer to page 21.)



### 4-Speaker Configuration

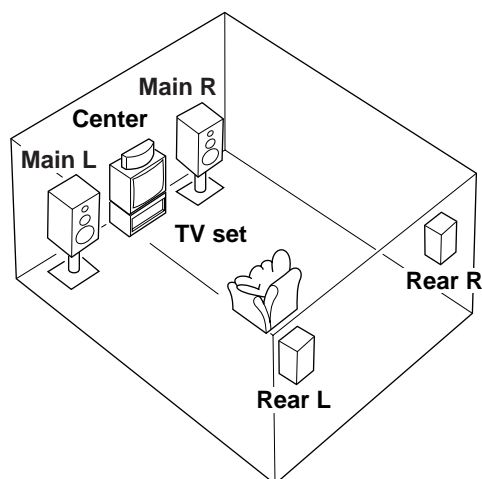
The center speaker is not used in this configuration. If the program **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED** is selected, the center sound is output from the left and the right main speakers. However, the sound effect of other programs can be the same as that of the 5-speaker configuration.

- Be sure to set the center channel mode to the “**PHANTOM**” position. (For details, refer to page 21.)



## SPEAKER PLACEMENT

The recommended speaker configuration, the 5-speaker configuration, will require two speaker pairs: **main speakers** (your normal stereo speakers), and **rear speakers**, plus a **center speaker**. When you place these speakers, refer to the following.



- Main:** In normal position. (The position of your present stereo speaker system.)
- Rear:** Behind your listening position, facing slightly inward. Nearly six feet (approx. 1.8 m) up from the floor.
- Center:** Precisely between the main speakers. (To avoid interference with TV sets, use a magnetically shielded speaker.)

# CONNECTIONS

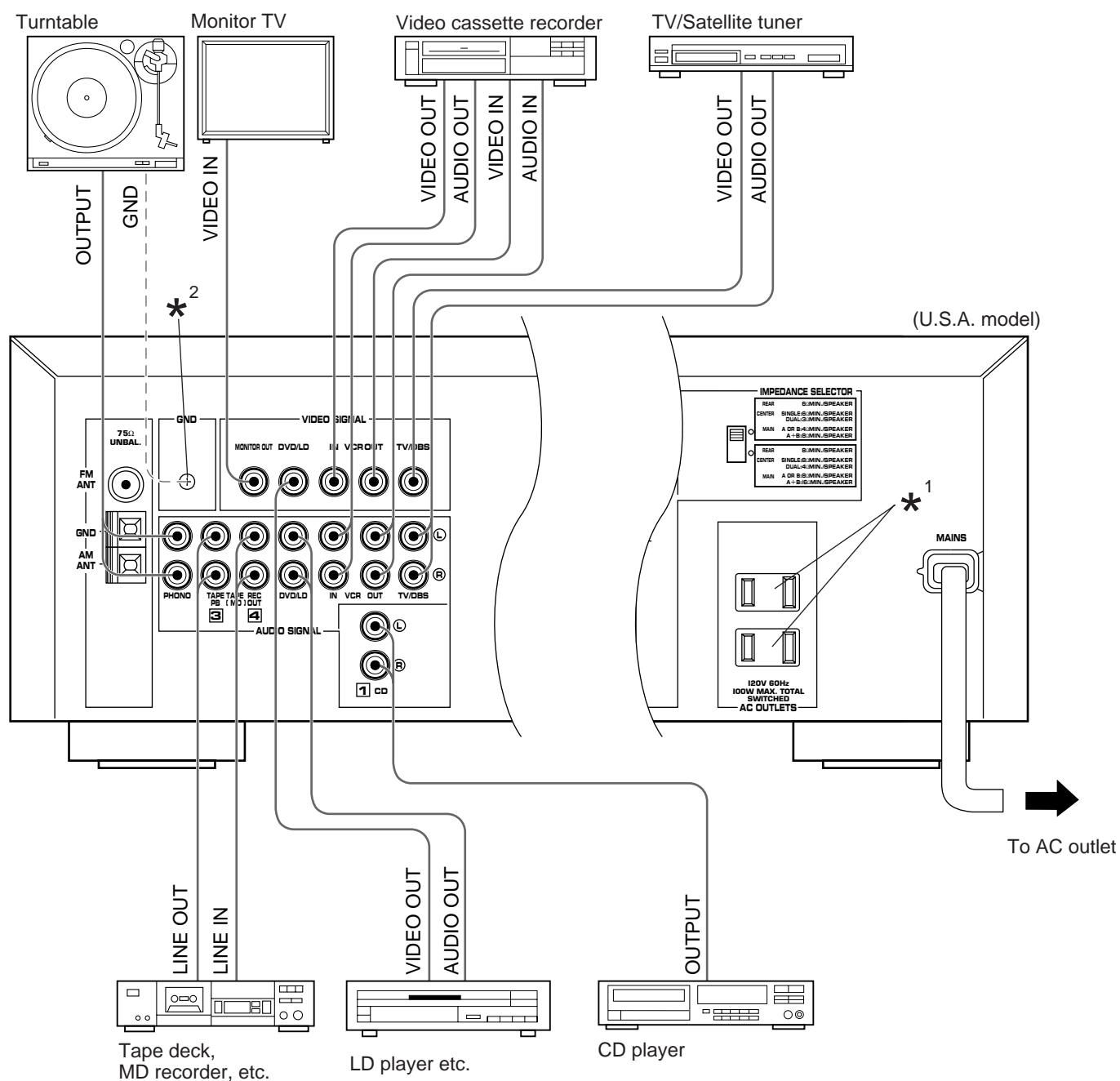
Never plug in this unit and other components until all connections are completed.

## CONNECTIONS WITH OTHER COMPONENTS

When making connections between this unit and other components, be sure all connections are made correctly, that is to say L (left) to L, R (right) to R, “+” to “+” and “-” to “-”. Also, refer to the owner's manual for each component to be connected to this unit.

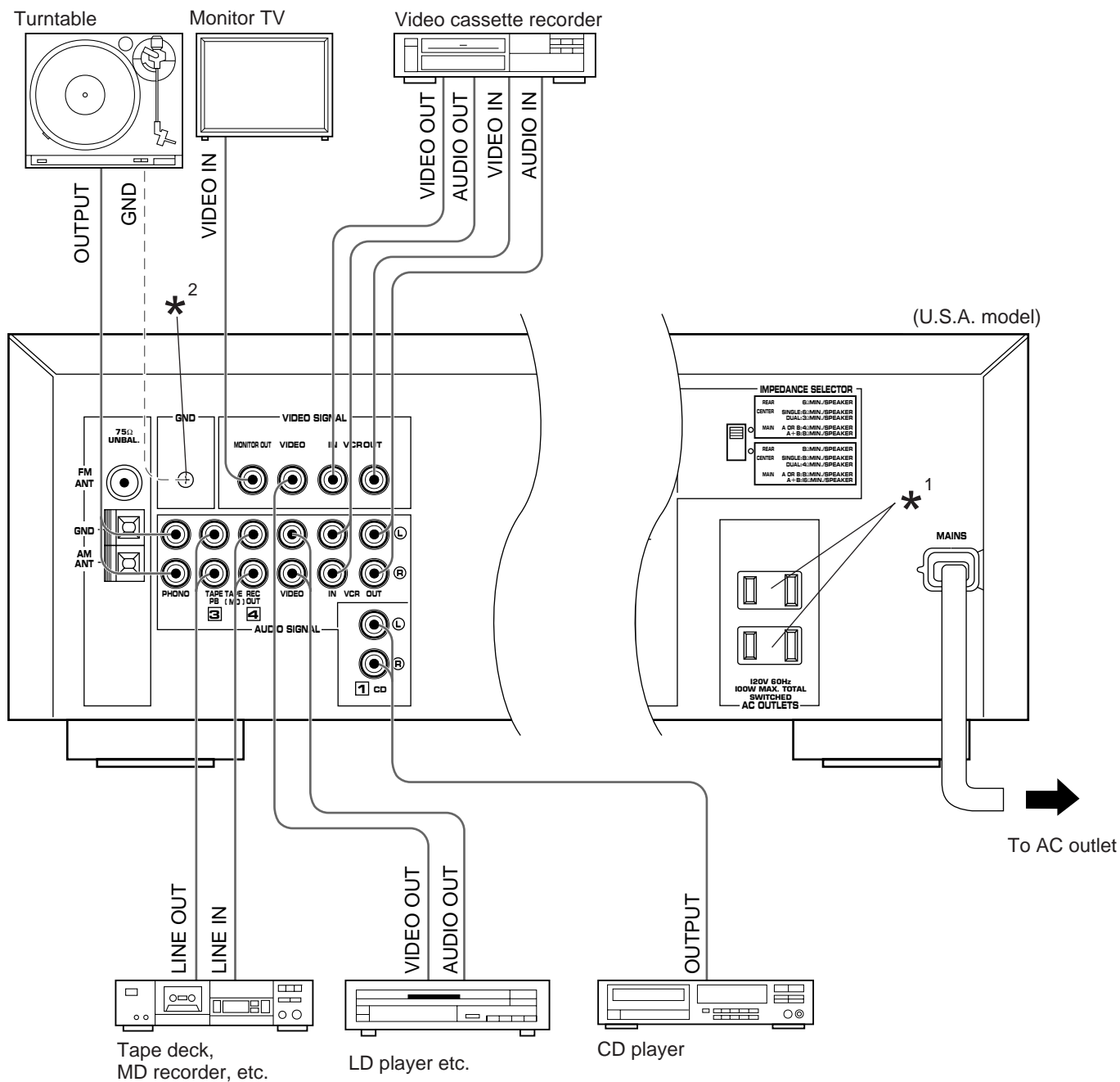
\* If you have YAMAHA components numbered as 1, 2, 3, etc. on the rear panel, connections can be made easily by making sure to connect the output (or input) terminals of each component to the same-numbered terminals of this unit.

### RX-V492



\*<sup>1</sup>, \*<sup>2</sup>: See the next page.

## RX-V392

\*<sup>1</sup>**AC OUTLET(S) (SWITCHED)**

(U.S.A., Canada and General models)

..... 2 SWITCHED OUTLETS

(Australia model) ..... 1 SWITCHED OUTLET

Use these to connect the power cords from your components to this unit.

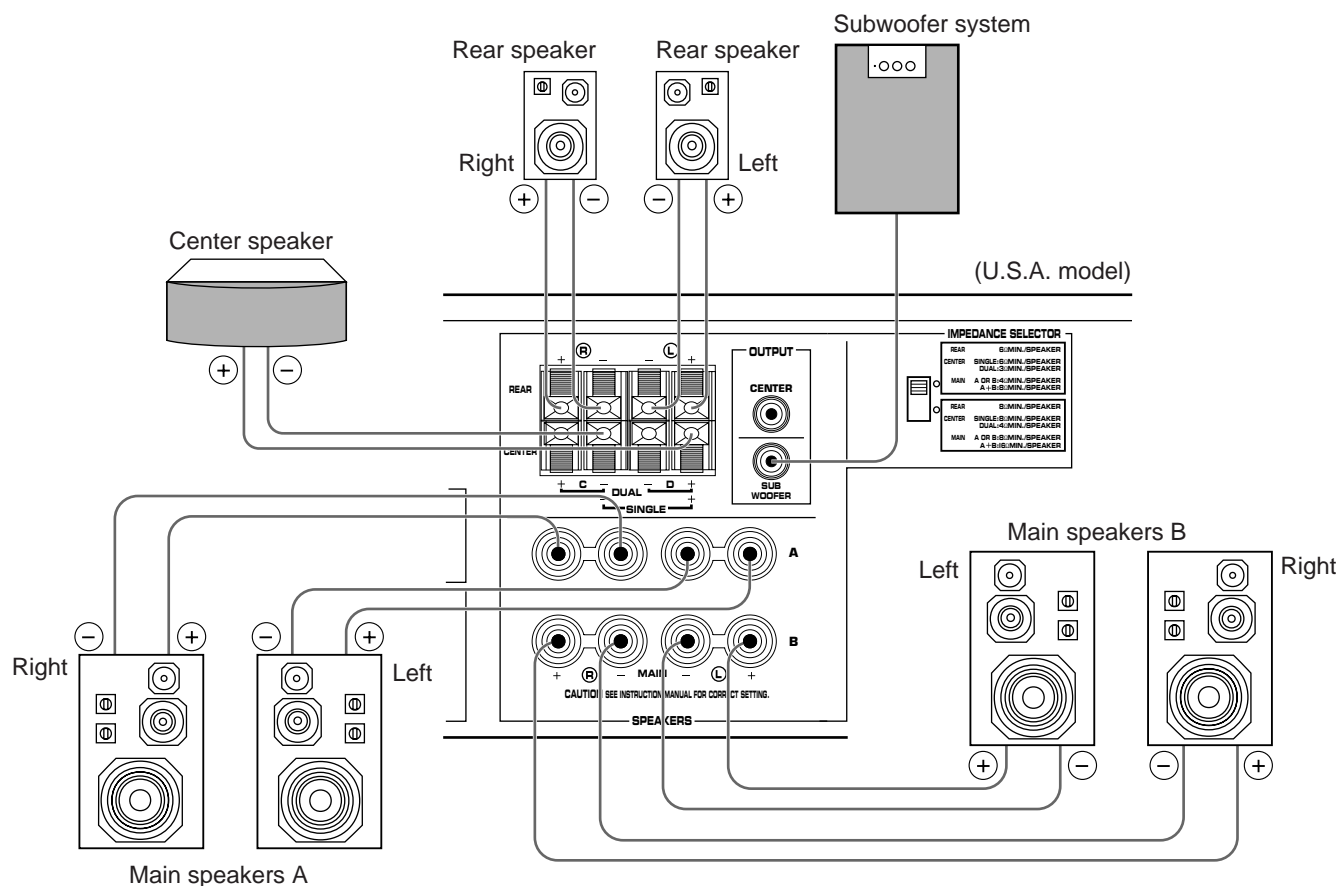
The power to the **SWITCHED** outlets is controlled by this unit's **POWER** switch or the provided remote control transmitter's **POWER** key. These outlets will supply power to any component whenever this unit is turned on.

The maximum power (total power consumption of components) that can be connected to the **SWITCHED AC OUTLET(S)** is 100 watts.

\*<sup>2</sup>**GND terminal (For turntable use)**

Connecting the ground wire of the turntable to the **GND** terminal will normally minimize hum, but in some cases better results may be obtained with the ground wire disconnected.

## CONNECTING SPEAKERS



### Note

Use speakers with the specified impedance shown on the rear of this unit.

### Note on main speaker connections:

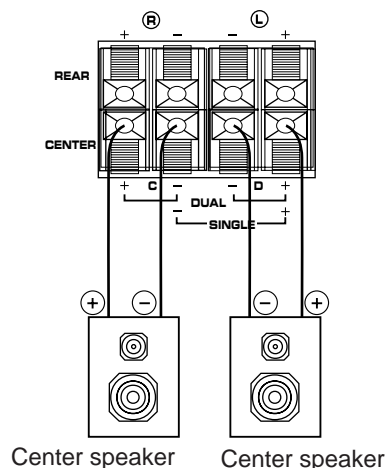
One or two speaker systems can be connected to this unit. If you use only one speaker system, connect it to either the **SPEAKERS A** or **B** terminals.

### Note on a subwoofer connection:

You may wish to add a subwoofer to reinforce low frequencies. Connect the **SUBWOOFER OUTPUT** terminal of this unit to the **INPUT** terminal of the subwoofer amplifier, and connect the speaker terminals of the subwoofer amplifier to the subwoofer. With some subwoofers, including the Yamaha Active Servo Processing Subwoofer System, the amplifier and subwoofer are in the same unit.

### Note on center speaker connection:

One or two center speakers can be connected to this unit. If you cannot place the center speaker on or under the TV, it is recommended to use two center speakers and place them on both sides of the TV to orient the center sound at the center position. For connecting two center speakers, follow the method shown below.



## How to Connect:

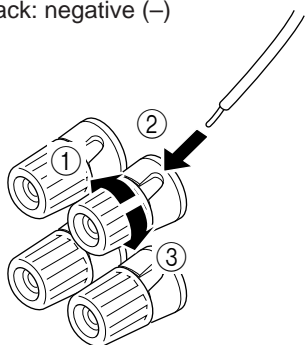
Connect the **SPEAKERS** terminals to your speakers with wire of the proper gauge, cut as short as possible. If the connections are faulty, no sound will be heard from the speakers. Make sure that the polarity of the speaker wires is correct, that is the + and – markings are observed. If these wires are reversed, the sound will be unnatural and lack bass.

### Caution

**Do not let the bare speaker wires touch each other and do not let them touch any metal part of this unit. This could damage this unit and/or speakers.**

#### For connecting to the MAIN SPEAKERS terminals

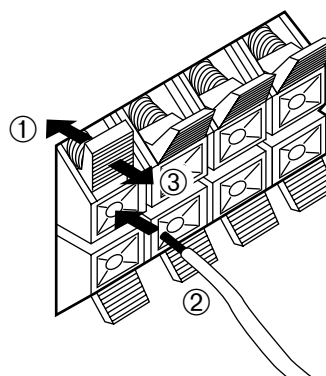
Red: positive (+)  
Black: negative (–)



- ① Unscrew the knob.
- ② Insert the bare wire.  
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Tighten the knob and secure the wire.

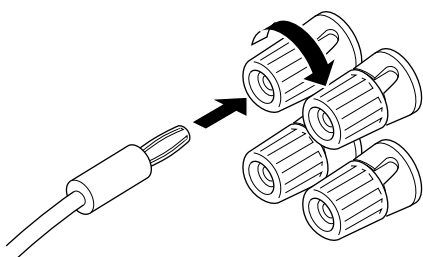
#### For connecting to the REAR and CENTER SPEAKERS terminals

Red: positive (+)  
Black: negative (–)

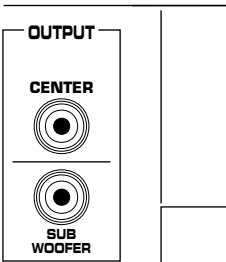


- ① Press the tab.
- ② Insert the bare wire.  
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Release the tab and secure the wire.

Banana Plug connections are also possible. Simply insert the Banana Plug connector into the corresponding terminal.



# OUTPUT terminals (for driving speakers with external amplifiers)



## CENTER OUTPUT terminal

This terminal is for center channel line output. There is no connection to this terminal when you use the built-in amplifier. However, if you drive a center speaker with an external power amplifier, connect the input terminal of the external amplifier to this terminal.

## SUBWOOFER OUTPUT terminal

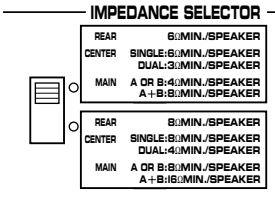
This terminal is for connecting with the input terminal of an amplifier for driving a subwoofer. This terminal outputs only frequencies below 200 Hz from the main and center channels.

### Note


Output level of signals from these terminals are adjusted by the use of **VOLUME** control on the front panel or **VOLUME** keys on the remote control transmitter.

# IMPEDANCE SELECTOR switch


Be sure to switch this only when the power of this unit is turned off.  
Select the position whose requirements your speaker system meets.



(U.S.A. model)

 (Upper position)

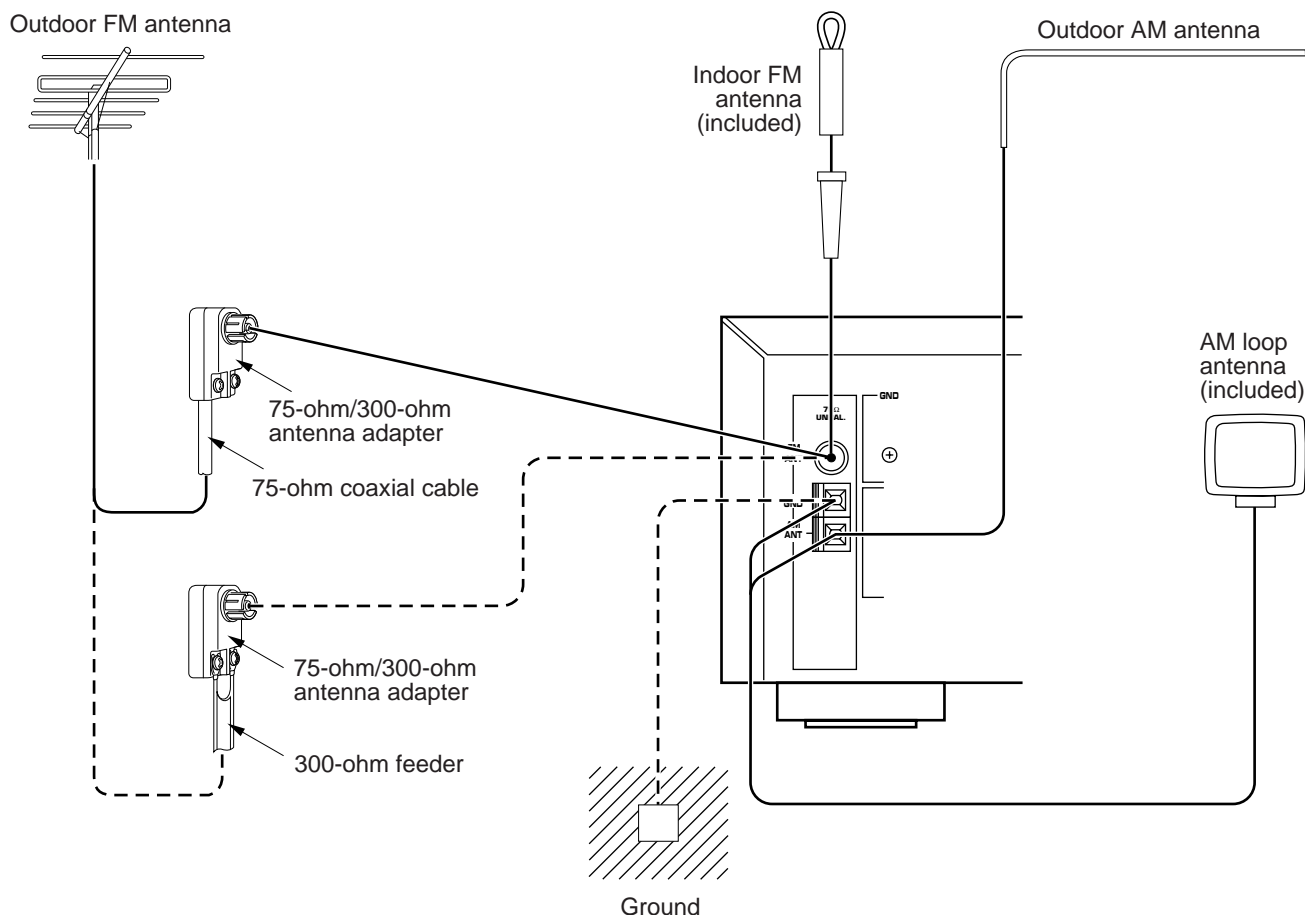
- Rear:** The impedance of each speaker must be 6Ω or higher.
- Center:** If you use one center speaker, the impedance of the speaker must be 6Ω or higher.  
If you use two center speakers, the impedance of each speaker must be 3Ω or higher.
- Main:** If you use one pair of main speakers, the impedance of each speaker must be 4Ω or higher.  
If you use two pairs of main speakers, the impedance of each speaker must be 8Ω or higher.

 (Lower position)

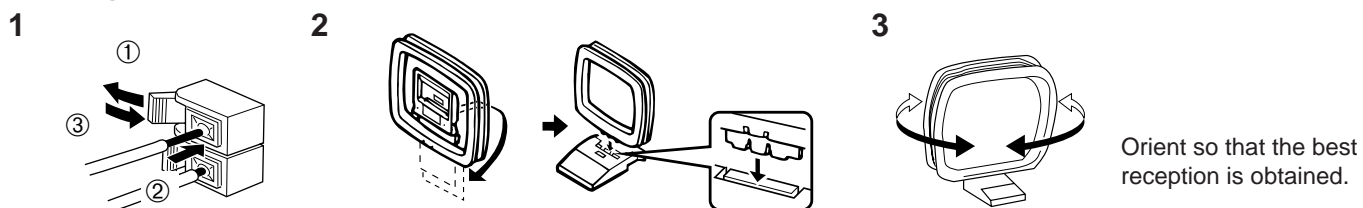
- Rear:** The impedance of each speaker must be 8Ω or higher.
- Center:** If you use one center speaker, the impedance of the speaker must be 8Ω or higher.  
If you use two center speakers, the impedance of each speaker must be 4Ω or higher.
- Main:** If you use one pair of main speakers, the impedance of each speaker must be 8Ω or higher.
- <Except Canada model>**  
If you use two pairs of main speakers, the impedance of each speaker must be 16Ω or higher.

## ANTENNA CONNECTIONS

- Each antenna should be connected to the designated terminals correctly, referring to the following diagram.
- Both AM and FM indoor antennas are included with this unit. In general, these antennas will probably provide sufficient signal strength. Nevertheless, a properly installed outdoor antenna will give clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may result in improvement.



### Connecting the AM loop antenna



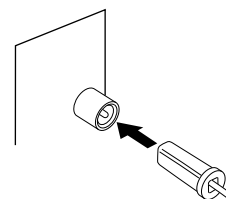
- \* The AM loop antenna should be placed apart from the main unit. The antenna may be hung on a wall.
- \* The AM loop antenna should be kept connected, even if an outdoor AM antenna is connected to this unit.

### GND terminal

For maximum safety and minimum interference, connect the **GND** terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

### Notes

- When connecting the indoor FM antenna, insert its connector into the **FM ANT** terminal firmly.
- If you need an outdoor FM antenna to improve FM reception quality, either 300-ohm feeder or coaxial cable may be used. In locations troubled by electrical interference, coaxial cable is preferable.

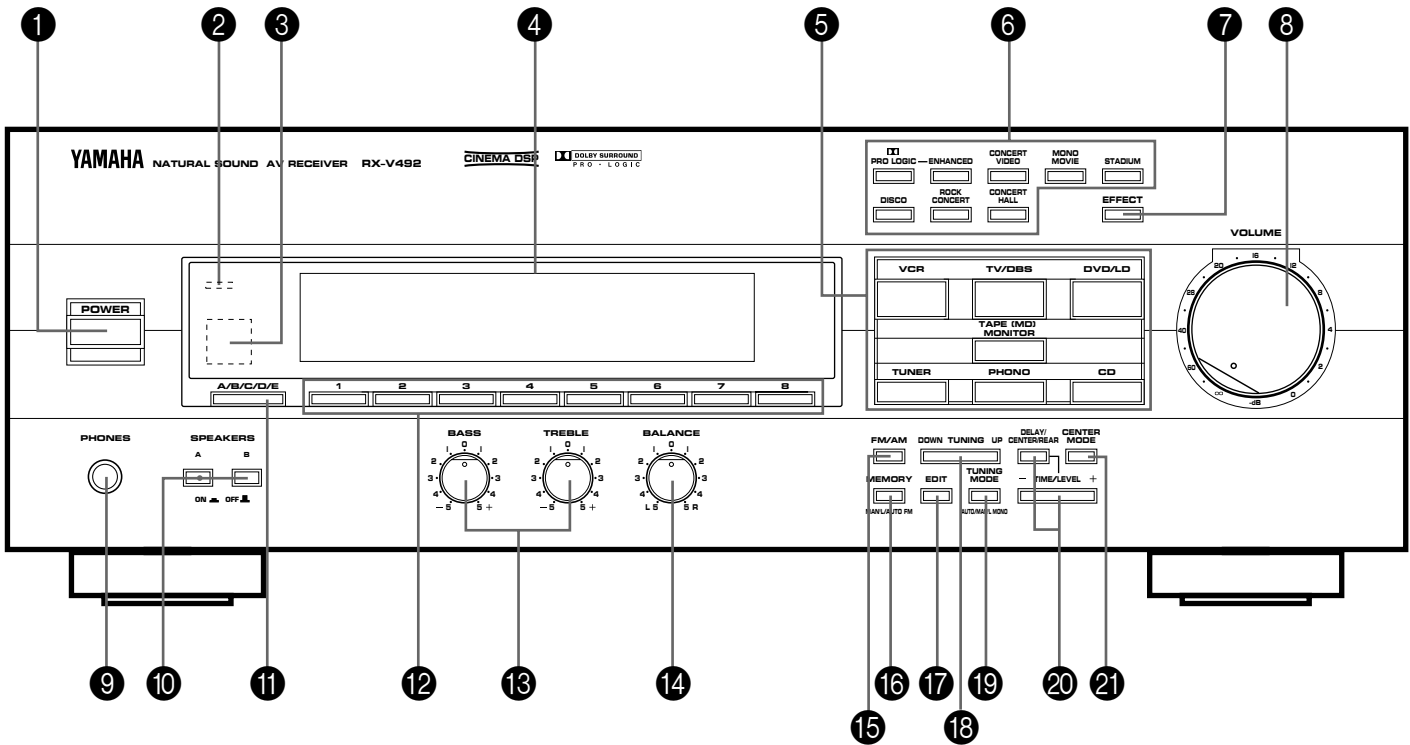




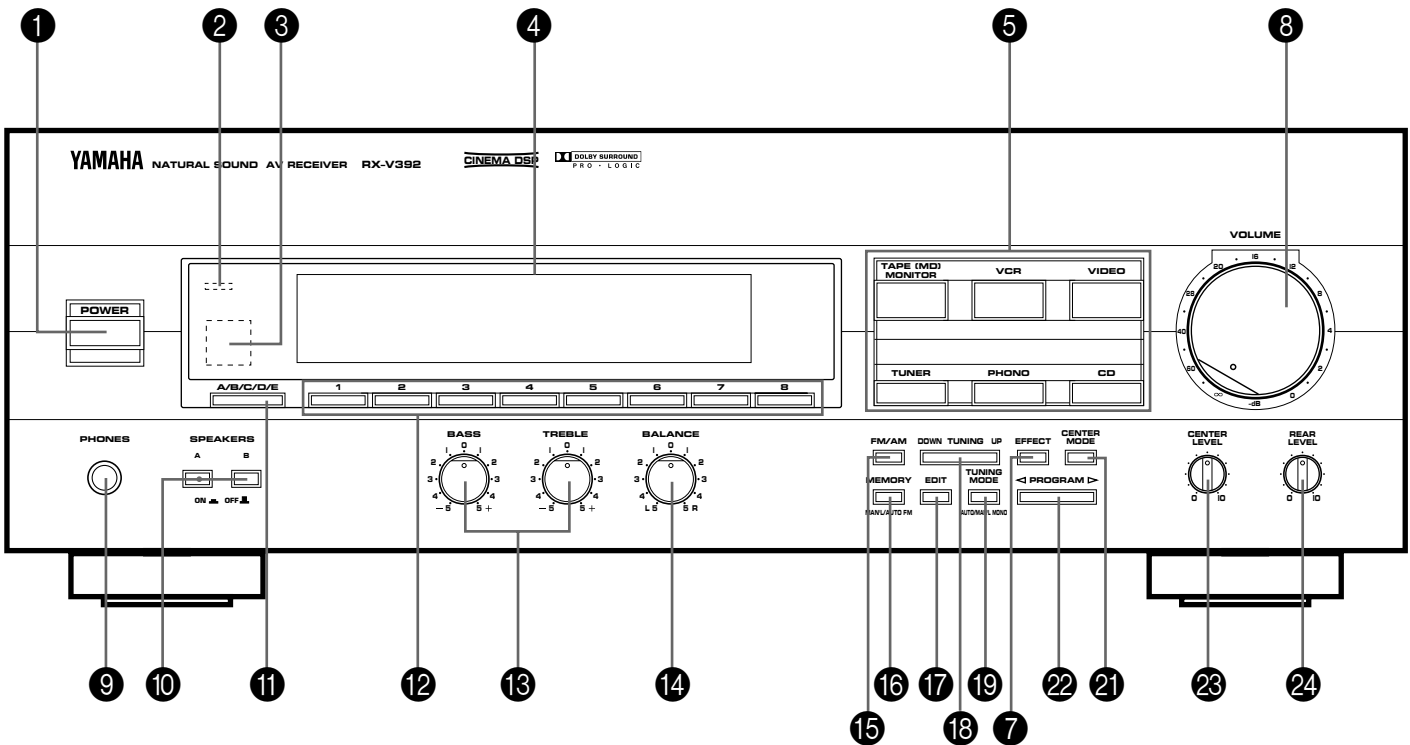
# CONTROLS AND THEIR FUNCTIONS

## FRONT PANEL

### RX-V492



### RX-V392



**1 POWER switch**

Press this switch to switch the power on. Press it again to switch the power off.

**2 Standby mode indicator**  
(Except U.S.A. and Canada models)

While the power is on, pressing the **SYSTEM POWER OFF** key on the remote control transmitter switches the unit to the standby mode. In this mode, this indicator is illuminated.

**3 Remote control sensor**

Receives signals from the remote control transmitter.

**4 Display panel**

Shows various information. (Refer to page 17 for details.)

**5 Input selector buttons**

Select a program source to listen to or watch. When a button is pressed, the name of selected source appears on the display.

**6 DSP program selector buttons****RX-V492 only**

Select a DSP program. When a button is pressed, the name of selected program lights up on the display.

**7 EFFECT button**

Switches on/off the digital sound field processor (including the Dolby Pro Logic Surround decoder).

**8 VOLUME control**

Used to raise or lower the volume level.

**9 PHONES jack**

When you listen with headphones, connect the headphones to the **PHONES** jack. You can listen to the sound to be output from the main speakers through headphones.

When listening with headphones privately, set both the **SPEAKERS A** and **B** switches to the **OFF** position and switch off the digital sound field processor (so that no DSP program name is illuminated on the display) by pressing the **EFFECT** button.

**10 SPEAKERS switches**

Set the switch **A** or **B** (or both **A** and **B**) for the main speaker system (connected to this unit) you will use to the **ON** position. Set the switch for the main speaker system you will not use to the **OFF** position.

**11 A/B/C/D/E button**

Press this button to select a desired group (A–E) of preset stations.

**12 Preset station number selector buttons**

Select a preset station number (1 to 8).

**13 Tone controls**

These controls are effective only for the sound from the main speakers.

**BASS**

Used to increase or decrease the low frequency response. The 0 position produces flat response.

**TREBLE**

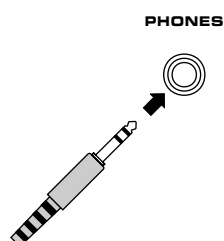
Used to increase or decrease the high frequency response. The 0 position produces flat response.

**14 BALANCE control**

Adjusts the balance of the output volume to the left and right speakers to compensate for sound imbalance caused by speaker location or listening room conditions.

**15 FM/AM buttons**

Press this button to switch the reception band to FM or AM.



#### **16 MEMORY (MAN'L/AUTO FM) button**

When this button is pressed, the MEMORY indicator flashes for about 5 seconds. During this period, select a desired preset station number by pressing the corresponding preset station number selector button to enter the displayed station into the memory.

When this button is pressed and held for about 3 seconds, the automatic preset tuning begins. (Refer to page 28 for details.)

#### **17 EDIT button**

This button is used to exchange the places of two preset stations with each other.

#### **18 TUNING DOWN/UP button**

Used for tuning. Press the "UP" side to tune in to higher frequencies, and press the "DOWN" side to tune in to lower frequencies.

#### **19 TUNING MODE (AUTO/MAN'L MONO) button**

Press this button to switch the tuning mode to automatic or manual. To select the automatic tuning mode, press this button so that "AUTO" lights up on the display. To select the manual tuning mode, press this button so that "AUTO" goes off.

#### **20 DELAY/CENTER/REAR and TIME/LEVEL +/- buttons**

##### **RX-V492 only**

Adjust the delay time (DELAY), the rear channel output level (REAR) and the center channel output level (CENTER).

Select the item which you want to adjust by pressing the **DELAY/CENTER/REAR** button and adjust its time or level by pressing the **TIME/LEVEL +/-** button.

#### **21 CENTER MODE button**

Selects a center channel output mode (NORMAL, WIDE or PHANTOM). (For details, refer to page 21.)

#### **22 PROGRAM selector button**

##### **RX-V392 only**

When the built-in digital sound field processor (including the Dolby Pro Logic Surround decoder) is on, this button changes the currently selected DSP program whenever the right or left side of this button is pressed.

#### **23 CENTER LEVEL control**

##### **RX-V392 only**

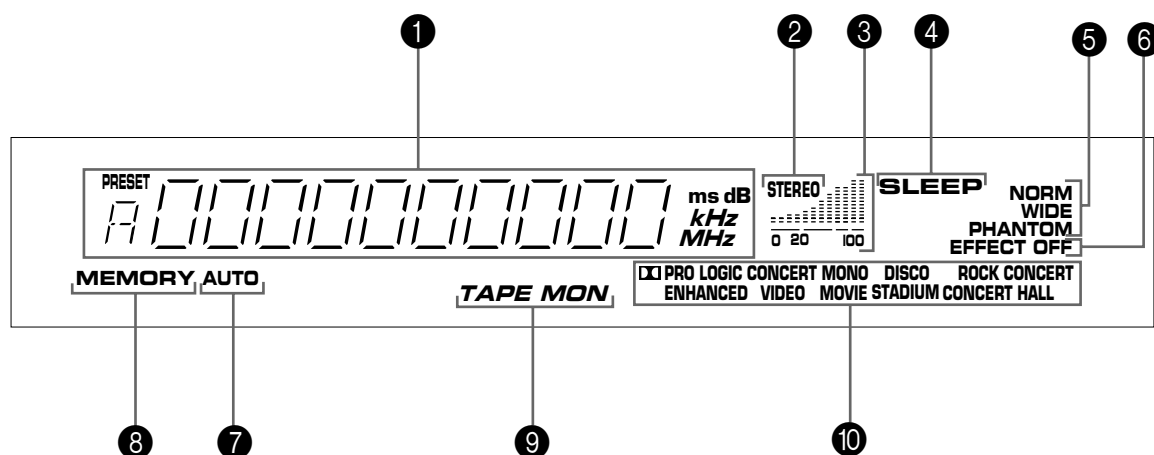
Adjusts the sound output level of the center speaker.

#### **24 REAR LEVEL control**

##### **RX-V392 only**

Adjusts the sound output level of the rear speakers.

## DISPLAY PANEL



### 1 Multi-information display

Displays various information, for example station frequency, preset station number and name of selected input source.

### 2 STEREO indicator

Lights up when an FM stereo broadcast with sufficient signal strength is received.

### 3 Signal-level meter

Indicates the signal level of the received station. If multipath interference is detected, the indication decreases.

### 4 SLEEP indicator

Lights up while the built-in SLEEP timer is functioning.

### 5 Center channel mode indicators

The name of a selected center channel mode lights up only when a program which uses the Dolby Pro Logic Surround decoder is selected.

### 6 EFFECT OFF indicator

Lights up if neither the digital sound field processor nor the Dolby Pro Logic Surround decoder is on. In this state, sound output is 2-channel stereo.

### 7 AUTO indicator

Lights up when this unit is in the automatic tuning mode.

### 8 MEMORY indicator

When the **MEMORY** button is pressed, this indicator flashes for about 5 seconds. During this period, the displayed station can be programmed to the memory by using the **A/B/C/D/E** button and the preset station number selector buttons.

### 9 TAPE MON indicator

Lights up when the tape deck (or MD recorder etc.) is selected as the input source by pressing the **TAPE (MD) MONITOR** button.

### 10 DSP program indicators

The name of a selected DSP program lights up when the built-in digital sound field processor and/or the Dolby Pro Logic Surround decoder is on.

## REMOTE CONTROL TRANSMITTER

The remote control transmitter provided with this unit is designed to control all the most commonly used functions of this unit. If the CD player and tape deck connected to this unit are YAMAHA components designed for remote control compatibility, then this remote control transmitter will also control various functions of each component.

